

RN1000 : RabbitNet Hub

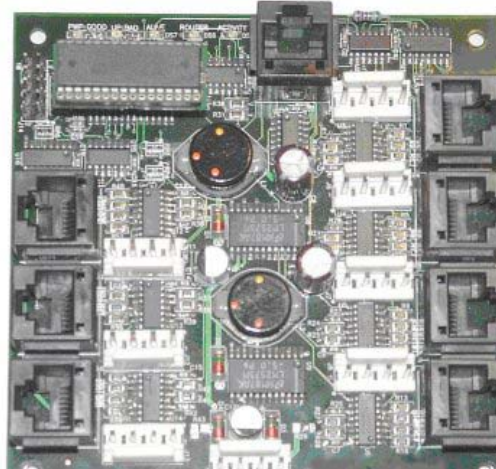
The RN1000 RabbitNet allows the user to extend the number of expansion card controlled via a master Z-World single-board computer including OP7200, BL2500 and BL2600 families.

The RN1000 hub is a 8 ports device. The first port connects to the master SBC while the 7 others are free to host slave expansion cards from families RN1100, RN1200, RN1300, RN1400 or RN1600.

Each RN1000 connected to a master can itself host up to 7 supplemental RN1000 hub. By this way, the SBCs with 2 native RabbitNet ports can be connected to 14 hubs offering a total of 98 available ports (1). This architecture allows the construction of very large scale multichannel configurations : for instance BL2500 or BL2600 controllers can be used as basis for configuration including up to 392 industrialized digital I/Os and 392 analog inputs (such configuration use 14 x RN1000 hubs and 98 x RN1100 expansion cards).

The hubs and expansion cards are deportable all along very large distances because the RabbitNet communication involve a SPI protocol with RS422 support at 1 Mbps. The "broadcast" mode is supported: simultaneous adressng of all connected device (2).

The RN1000 act as an hardware switch and physicaly connects the controller to the addressed device. Once connected, the RN device transmits or receives data without delay. A supplied utility program allows to measure the different switching times for a given customer context in order to ensure that the designed application really fit into the user's real time constrains (3).



Price :
\$195 (Qty 1)

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| Number of RabbitNet ports | 8 |
| Communication | RS422, SPI @ 1Mbps |
| Supported master controllers | BL2500, BL2600, OP7200 families |
| Supported expansion cards | RN1100, RN1200, RN1300, RN1400, RN1600 |
| Available software | Utility, demo programs, specific Dynamic C library |
| Supplemental function | Broadcast (2) |
| Terminals | 8 connectors RJ45 (RabbitNet ports), 8 Tyco connectors 4 pins 3,96 mm (power supply) |
| General power supply | From 12 to 36 VDC |
| Internal power supply | 5 VDC, 2 A max. |
| Consumption | Depends on number of RN connected cards |
| Dimensions | 100mm x 100mm x 20mm (3.94"x3.94"x0.79") |
| Operating temperature | -40°C to +70°C |
| Humidity | From 5% to 95 % non condensed |

The supplied software includes one specific Dynamic C library, demo programs showing the RN1000 use with the main Z-World supported SBCs and a benchmark utility to calculate the swithing times (3).

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